



AI

Ai Overview Mental Health Tips 2025

Olive K. L. Woo, Yuk Ming Tang



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Artificial Intelligence in Facial Trauma, Oral Diseases, and Systemic Health Tuan D. Pham, Simon Holmes, Domniki Chatzopoulou, Paul Coulthard, 2026-01-01 This book explores the role of artificial intelligence in healthcare focusing on cranio maxillofacial trauma oral health and systemic disease Part I establishes the foundations with core traditional machine learning and deep learning methods imaging pipelines from classical features to CNNs and vision transformers data augmentation explainable AI and sequential data approaches including RNNs LSTMs transformers fuzzy recurrence plots and scalable recurrence graph networks Parts II IV highlight clinical applications In facial trauma chapters cover injury patterns and AI diagnostics as well as text based mortality prediction and mandible network analysis Surgical planning and simulation are addressed through 3D reconstruction patient specific implant design outcome prediction and workflow integration with real world examples in orthognathic surgery and fibula free flap reconstruction Postoperative infection risk prediction is presented through multimodal monitoring Oral health applications include AI for caries and periodontal disease pediatric imaging enhanced by vision language models and cancer screening for early detection biomarker discovery and precision medicine Oral systemic links including diabetes and cardiovascular disease are analyzed using tensor models and recurrence based methods Part V integrates trauma oral health and systemic conditions and concludes with ethical legal and policy considerations as well as future directions in federated learning digital twins and global health equity **AI with Insight: Explainable Approaches to Mental Health Screening and Diagnostic Tools in Healthcare** Riku Klén, Inbar Levkovich, Izidor Mlakar, Satja Mulej Bratec, Urška Smrke, 2026-03-02 Mental health conditions are often underrecognized and overlooked in healthcare especially in primary healthcare and in patients with primary somatic conditions where mental health disorders are present as a comorbidity Primary care physicians frequently encounter patients presenting with mental health issues whether as standalone conditions or as comorbidities to physical illnesses placing them in a pivotal role for early detection and management Screening for psychological disorders has been recognized as of great importance however several barriers to its implementation persist including lack of staff time constraints accessibility restrictions and availability of services Additionally quality of self reporting of internal states can be diminished due to reconstruction of memories inattentive responding social desirability and reliance on cognitive heuristics With advancements in big data artificial intelligence and technological advancements there are new exciting possibilities rising in approach to screening for and supporting the diagnosing of mental health conditions In primary care explainable AI offers solutions that can streamline mental health evaluations by providing accessible and interpretable tools that align with physicians workflows Such approaches have the potential to overcome at least some barriers to identifying persons with mental health disorders as they can be cost effective efficient and can provide an unintrusive way of assessment that can be also used for regular monitoring for persons at risk Specific interesting potential can be found in the explainable evidence based approaches that can

translate existing knowledge to technology supported screening and diagnosis of mental health conditions Explainable AI tools can also empower primary care providers by demystifying complex algorithms and enabling them to make informed decisions based on AI generated insights Additionally these tools can facilitate interdisciplinary collaboration between primary care physicians and mental health specialists bridging the gap in holistic care In this Research Topic we aim to create a collection of papers on recent advancements in the field of explainable AI approaches to screening and or supporting the process of diagnosing mental health disorders This Topic welcomes studies from basic research to implementation of such solutions in healthcare with areas including but not limited to Evaluation of markers that can be exploited during screening Building algorithms and their validation Applications of AI screening and diagnosis in practice Integration of AI into primary care workflows to enhance early detection and management of mental health conditions Validation or comparison of AI based approaches to standard psychometric tools AI tools for addressing mental health comorbidities in patients with chronic physical conditions The role of AI in improving care equity in underserved or resource constrained settings We welcome various article types original research review studies policy and practice reviews and policy briefs hypothesis and theory papers methods papers perspective papers clinical trials case studies technology and code reports and brief research reports

Humanism and Technology Maria Gren, Reinhold Popp, Marcus Wilding, How can technology improve healthcare without losing sight of the human being This interdisciplinary edited volume offers scientifically grounded practice oriented and forward looking answers to this question Topics discussed include the psychological and societal impacts of artificial intelligence ethical challenges of digital therapy technological developments in nursing and medicine and the importance of technological humanism as an alternative to transhumanism and technological totalitarianism

DeepSeek and Mental Health Support Among Chinese Youth Olive K. L. Woo, Yuk Ming Tang, 2026-02-16 This book examines the impact of the AI tool DeepSeek on mental health care in China offering valuable insights into challenges ethical considerations and the transformative potential of AI Co authored by a clinical psychologist and an AI expert it explores the mental health crisis among young people in China including societal pressures cultural norms and systemic barriers This book provides a balanced analysis of the limitations and benefits of AI driven round the clock assistance while addressing ethical concerns and presenting future research directions to navigate emerging challenges at the intersection of technology and mental health Enriched by compelling case studies this title is essential for those interested in the evolving relationship between AI and emotional well being

AI-Driven Sustainability Joanna Rosak-Szyrocka, Radosław Wolniak, 2025-11-25 AI Driven Sustainability The Future of Human Resources Management is an interdisciplinary publication that demonstrates the artificial intelligence phenomenon or AI in the sustainable shaping of human resources management The role of AI as a support to the existing HR processes and a comprehensive changer of organizational ethical social and environmental values is reviewed by authors By providing readers with the wide scale of

explanatory case studies among global business corporations and with a thorough review of law ethical and technological issues in 10 chapters the book suggests a green model of AI implementation in HR dimensions A must read publication for researchers practitioners and leaders who want to make their business part of the conscious future in labor in the environment of digitalization

Corporate Responsibility and Accountability in Business Law Angelica

Rutherford,2026-04-15 Employing an interdisciplinary lens this book examines the practices legal frameworks and regulatory challenges of corporate responsibility and accountability in emerging sectors drawing on national regional and international case studies In the current climate business activities are debated and scrutinised worldwide due to their social environmental and human rights impacts Concomitantly corporations have been active agents of progress in the investment creation and dissemination of new technologies fields in which the regulation of responsible business conduct is still developing Aligning with current challenges of the United Nations Sustainable Development Goals the book is divided into five parts and looks at AI and data investment production and consumption energy and climate change It offers a compelling analysis of the convergences and divergences in business practices across diverse legal and regulatory frameworks By examining the gap between law regulation and rapid advancements in emerging sectors and technologies it provides actionable insights for corporate strategy legal reform and policy development ensuring timeliness and practical relevance The book will be of interest to researchers in the field of business and corporate law corporate responsibility and accountability

AI Powered Drug delivery to Neuro and Cardiovascular Systems Chandra P. Sharma,Finosh G.

Thankam,Rohan Goswami,2026-03-23 AI Powered Drug Delivery to Neuro and Cardiovascular Systems Perspectives and Future Challenges is a definitive reference exploring the transformative influence of Artificial Intelligence AI in neuro and cardiovascular drug delivery This book integrates cutting edge research to explain how AI is poised to reshape clinical protocols therapeutic strategies and regulatory standards By examining advancements in robotics and intelligent systems it demonstrates how AI enhances precision personalization and efficiency in drug delivery for heart and neurological conditions providing readers with a thorough understanding of these innovations and their potential to revolutionize healthcare practices The book delves into AI driven drug design and testing for cardiovascular diseases and explores the application of AI in cardiac drug delivery vehicles It discusses bioengineered heart and vessel therapeutics redox homeostasis and targeted drug replenishment in cardiac matrix remodeling Additionally it addresses mitochondrial drug retention AI assisted gene therapy for neurodegenerative disorders and the role of AI in optimizing heart health The text highlights smart systems for managing cerebrovascular accidents and neuromodulation with pharmacotherapy Finally it covers translational challenges future directions and the significance of AI driven prediction models and robotic delivery mechanisms Explores AI s role in personalized drug regimens for neuro and cardiovascular diseases Offers insights into AI enhanced drug design and testing methodologies Discusses advanced robotic delivery systems for targeted efficient drug administration Provides guidelines for

integrating AI into clinical practices Enhances understanding of AI driven prediction models for optimizing patient outcomes

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Mental Health Hillary Quinn,2023-08-07 AI and Mental Health Transforming Therapy and Counseling is an indispensable
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INTERSECTION OF TECHNOLOGY AND MENTAL WELLNESS In an era where technology and mental health are colliding
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Artificial Intelligence in Brain and Mental Health: Philosophical, Ethical & Policy Issues Fabrice Jotterand, Marcello Ienca, 2022-02-11 This volume provides an interdisciplinary collection of essays from leaders in various fields addressing the current and future challenges arising from the implementation of AI in brain and mental health Artificial Intelligence AI has the potential to transform health care and improve biomedical research While the potential of AI in brain and mental health is tremendous its ethical regulatory and social impacts have not been assessed in a comprehensive and systemic way The volume is structured according to three main sections each of them focusing on different types of AI technologies Part 1 Big Data and Automated Learning Scientific and Ethical Considerations specifically addresses issues arising from the use of AI software especially machine learning in the clinical context or for therapeutic applications Part 2 AI for Digital Mental Health and Assistive Robotics Philosophical and Regulatory Challenges examines philosophical ethical and regulatory issues arising from the use of an array of technologies beyond the clinical context In the final section of the

volume Part 3 entitled AI in Neuroscience and Neurotechnology Ethical Social and Policy Issues contributions examine some of the implications of AI in neuroscience and neurotechnology and the regulatory gaps or ambiguities that could potentially hamper the responsible development and implementation of AI solutions in brain and mental health In light of its comprehensiveness and multi disciplinary character this book marks an important milestone in the public understanding of the ethics of AI in brain and mental health and provides a useful resource for any future investigation in this crucial and rapidly evolving area of AI application The book is of interest to a wide audience in neuroethics robotics computer science neuroscience psychiatry and mental health

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